

	PART I Initial Discovery/Notification			
1.	Date/time the event was discovered: 10/1/04 11:00 AM			
2.	Date/time the event occurred, if different than the date of discovery: N/A			
3.	Describe the event: We have been experiencing noticeable cracks/fissures of some of our MSA brand MM2K Powered Air Purifying Respirators (PAPR) motor/blower assembly casings (Part #10022695). However, as evidenced by our in place personnel monitoring programs, we have not experienced an employee exposure associated with break through of the casings. Our original note of the circumstance was on August 25, 2004 during the re-use inspection process of the MSA MM2K PAPR by the Respiratory Protection Supervisor on site. We have field verified that our respirator cleaning and use processes are adequate and in line with the manufacturer recommendations. We again experienced a similar crack/fissures issue with a different order of MSA MM2K PAPR motor/blower assemblies by a different vendor ordering from a different lot number in early September 2004. We have discontinued use of the MSA MM2K PAPR on site in mid September as a result of the issues we have had and have supplied MSA with several of the cracked/fissured MM2K PAPR motor/blower assembly casings for testing at their facility in Pennsylvania. MSA is evaluating the matter and working on a solution for the identified issue.			
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4.	Under what regulation is this notification being made: 10CFR21			
5.	What is the period of time allowed for initial notification?			
	☐ Immediate ☐ Within 15 days			
	 □ Within 2 hours □ Within 4 hours □ Within 45 days 			
	☐ Within 4 hours ☐ Within 60 days			
	₩ Within 2 days □ Other			
	□ Within 5 days			
6.	Describe the emergency classification of this event. General Site/Area Alert Unusual Event None			
7.	Type of initial notification made.			
	For other than immediate, 2 hour, 4 hour, and 24 hour notifications:			

JE20 06/98 (cab)

Racid 11/2/04

FENEX

	PART I
8.	Initial Discovery/Notification NRC Section notified: USNRC Operations Center
9.	Individual's name to which the notification was made: John MacKinnon
10.	Time/date notification was made: 10/4/04 1750 hrs.
11.	Exact content of notification: Battelle, operating under US NRC License SNM-7 at West Jefferson, Ohio, is notifying NRC of a potential equipment defect as provided from the manufacturer concerning the MSA Model MM2K PAPR motor/blower assembly (Part # 10022695). After limited field use at its West Jefferson, Ohio site, noticeable cracks/fissures developed on some of the motor/blower casings. The manufacturer of the equipment, MSA, has been notified of the problem and several of the cracked/fissure units have been returned to MSA for testing in early September. Battelle discontinued use of the MSA Model MM2K PAPR in mid September as a result of the observed equipment cracks/fissures at its West Jefferson, Ohio site.
12. Pete G	Was any other agency or individual contacted as a result of this event? X Yes No; If yes, who was contacted? Greenwalt- DOE Columbus Closure Project Manager
13.	Initial notification made by: Joe Jacobsen- BCLDP RSO Signature of Individual Making Notification
	Joe Jacobsen- BCLDP RSO
	Acknowledged (RSO)



PART II Event Evaluation
1. Describe what conditions existed at the facility at the time of the event: Routine radiological facility decommissioning operations.
2. Describe any facilities alarms or equipment that indicated the event: None
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3. Radiological conditions involved with the event: N/A Overexposure of licensee personnel Overexposure of a member of the general public, a minor, or a prenatal exposure Release of radioactive materials to the environment License condition Loss or theft of radioactive materials Dose limits in restricted or unrestricted areas exceeded Receipt or transportation of radioactive materials Equipment failure Fires, toxic gasses, etc. that prevent radiological responses Contamination events Unplanned medical treatment of a contaminated individual at an offsite facility Sealed source leak tests Special nuclear material EPA limits
Describe, in detail, including the isotopes, quantities, and physical and chemical forms, radiation levels, radioactive material concentrations, causes of elevated levels of exposure rates, dose or concentrations, of the event: This section is not applicable to this event as it is an informational reporting for a 10CFR21 potential equipment defect issue only.

PART II Event Evaluation
4. Describe, in detail, immediate and supplemental corrective actions taken to mitigate the event and ensure against recurrence:
We have discontinued the use on site of the MSA brand MM2K PAPR. We have also added the MSA brand MM2K PAPR on the list of items not to be purchased on this site with the Quality Assurance Department.
tems not to be purchased on this site with the Quanty Assurance Department.
5. Describe any release that has, is or will occur as a result of this event: None

	PART II Event Evaluation
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7.	If overexposures of facility personnel or members of the general public are involved, including prenatal over exposure, complete Part III of this form. N/A



PART III Exposure Data					
SECTION 1.					
Name	DOB	Social Security #	Type Exposure*	Dose	Other**
None					
				·	
		.			
·					
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^{*} TEDE, Hdeye, Hdshallow

^{**} M = male; F = female; P = pregnat female, Mr = minor; G = General Public



PART III Exposure Data
SECTION 2.
Summary of supplemental actions taken associated with exposures:
None
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	Fina	PART IV I Event Summary	
1.	Determined cause of the event Design Procurement Component Failure Failure to Comply Personnel Performance Failure	NOTE:	Use Exhibit 1 as guidance in determining the cause of the event
	☐ Installation/Construction Errors ☐ Unusual Service Condition ☐ Procedure Deficiency ☐ Administrative Deficiency		
of wo site P weari MM2 obser as we MSA issues which to dis	Summarize, in detail, the cause, sequence of events and The cause of this event is a possible inadequate design of ork we are performing on site. The MSA brand MM2K PAPRs for the purposes of its lighter weight and ability to ing the respirator during work activities. Our original not EX PAPRs motor/blower casings occurred on August 25, a ved more cracking on the motor/blower casings of other all as by returning defective blower/motor assemblies to the brand MM2K PAPR motor/blower assembly on site person site as a result of the cracking of this motor/blower assembly afforded a lighter weight and more worker friendly optic continue use of this style of respirator on site was based of in use and allowing a worker(s) to receive an intake of respirator on site was based or in use and allowing a worker(s) to receive an intake of respirator on site was based or in use and allowing a worker(s) to receive an intake of respirator on site was based or in use and allowing a worker(s) to receive an intake of respirator on site was based or in use and allowing a worker(s) to receive an intake of respirator on site was based or in use and allowing a worker(s) to receive an intake of respirator on site was based or in use and allowing a worker(s) to receive an intake of respirator on site was based or in use and allowing a worker(s) to receive an intake of respirator on site was based or in use and allowing a worker(s) to receive an intake of respirator on site was based or in use and allowing a worker(s) to receive an intake of respirator on site was based or in use and allowing a worker(s) to receive an intake of respirator on site was based or in use and allowing a worker(s) to receive an intake of respirator on site was based or in use and allowing a worker(s) to receive an intake of respirator on site was based or in use and allowing a worker(s) to receive an intake of respirator on site was based or in use and allowing a worker(s) to receive an intake of respirator on site was based or in use and allowing a worker(s) to	the MSA brand MM2KPAPR was procured in the provide greater mobility te of the problem with comparison site and involve their factory for evaluation a site management decisembly. The provide greater mobility is a site management decisembly. The provided was been that we have in for use for different on not wanting to take the site of the provided wanting to take the provided wanting the provi	the summer of 2004 to be an alternative to existing and ease of motion for the workers while racking/fissures of some of our MSA brand pection processes on site. Subsequently, we downward MSA representatives with the issue both on site on. In mid September we discontinued use of the ision. We did not have any personnel exposures we lost the use of this style of respirator on site field work evolutions. Site management's decision

PART IV Final Event Summary				
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Date this repor	rt sent 10/31-04			
Report sent to	: 1) US NRC, Document Control Desk, Washington, D.C. 20555 2) Administrator, USNRC, Region III, 2443 Warren Road, Suite 201, Lisle, ILL 60532-4352			
Copies of this	report sent to:			
1.	Mike McCann- Region III NRC-Senior Health Physicist			
2.	BCLDP RSO File			
3. 1	Pete Greenwalt-DOE Site Manager-Columbus Closure Project			
5.	Pat Weaver- Battelle BCLDP Oversight Manager			
6.	BSTI RSO File			
6.				
7.				
= -				
9. 10.				
	Copies of this: 1. 2. 3. 4. 5. 6. 6. 7. 8. 9.			

Report Preparer:

Joe Jacobsen- BCLDP RSO

Date: 10/29/64

Report Approval:

Pat Weaver- BMI BCLDP Project Managei

Date: 10/29/04